

Refine Search

Search Results -

Terms	Documents
L1 and (context same (state or mode))	6

Database:

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

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Search:

L2

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Wednesday, April 05, 2006 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
	<i>DB=PGPB; PLUR=YES; OP=OR</i>		
<u>L2</u>	L1 and (context same (state or mode))	6	<u>L2</u>
<u>L1</u>	(wireless adj1 communication\$1) same ((mobile or portable) adj1 computer) same ((base or dock\$3) adj1 station)	233	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 and (context same (state or mode))	6

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
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Search:

L3

Search History

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<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<u>L3</u>	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR L1 and (context same (state or mode))	6	<u>L3</u>
<u>L2</u>	DB=PGPB; PLUR=YES; OP=OR L1 and (context same (state or mode))	6	<u>L2</u>
<u>L1</u>	(wireless adj1 communication\$1) same ((mobile or portable) adj1 computer) same ((base or dock\$3) adj1 station)	233	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 and (context same (state or mode))	0

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
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Search:

L4

Search History

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<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L4</u>	L1 and (context same (state or mode))	0	<u>L4</u>
<i>DB=PGPB,USPT,USOC; PLUR=YES; OP=OR</i>			
<u>L3</u>	L1 and (context same (state or mode))	6	<u>L3</u>
<i>DB=PGPB; PLUR=YES; OP=OR</i>			
<u>L2</u>	L1 and (context same (state or mode))	6	<u>L2</u>
<u>L1</u>	(wireless adj1 communication\$1) same ((mobile or portable) adj1 computer) same ((base or dock\$3) adj1 station)	233	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
(361/683 361/684 361/685 361/686 710/300 710/301 710/302 710/303 710/304 710/104 712/228 713/1 713/2 713/100 713/323).ccls.	12309

Database:

US Pre-Grant Publication Full-Text Database
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Search:

L5

Refine Search

Recall Text

Clear

Interrupt

Search History

 DATE: Wednesday, April 05, 2006 [Printable Copy](#) [Create Case](#)

Set
Name **Query**
 side by
 side

Hit
Count **Set**
 Name
 result set

DB=PGPB,USPT,USOC; PLUR=YES; OP=OR

L5 710/300-304,104;712/228;713/1,2,100,323;361/683-686.ccls.

12309 L5

DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L4 L1 and (context same (state or mode))

0 L4

DB=PGPB,USPT,USOC; PLUR=YES; OP=OR

L3 L1 and (context same (state or mode))

6 L3

DB=PGPB; PLUR=YES; OP=OR

L2 L1 and (context same (state or mode))

6 L2

L1 (wireless adj1 communication\$1) same ((mobile or portable) adj1 computer) same ((base or dock\$3) adj1 station)

233 L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 and L5	3

Database:

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 US Patents Full-Text Database
 US OCR Full-Text Database
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Search:

L6

Refine Search

Recall Text 

Clear

Interrupt

Search History

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<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<u>L6</u>	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR 11 and L5	3	<u>L6</u>
<u>L5</u>	710/300-304,104;712/228;713/1,2,100,323;361/683-686.ccls. DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR	12309	<u>L5</u>
<u>L4</u>	L1 and (context same (state or mode)) DB=PGPB,USPT,USOC; PLUR=YES; OP=OR	0	<u>L4</u>
<u>L3</u>	L1 and (context same (state or mode)) DB=PGPB; PLUR=YES; OP=OR	6	<u>L3</u>
<u>L2</u>	L1 and (context same (state or mode))	6	<u>L2</u>
<u>L1</u>	(wireless adj1 communication\$1) same ((mobile or portable) adj1 computer) same ((base or dock\$3) adj1 station)	233	<u>L1</u>

END OF SEARCH HISTORY

EAST - [Untitled1:1]

File View Edit Tools Window Help

Drafts

Pending

Active

L1: (186) (wireless ad

L2: (6) l1 and (context

Failed

Saved

Favorites

Tagged (0)

UDC

Queue

Trash

Search

List

Process

Queue

Clear

DBs

USPAT

Default operator

OR

Plurals

Highlight all hit terms initially

BRS form

IS&R form

Image

Text

HTML

	Type	L #	Hits	Search Text	DBs	Time Stam	Comment	Error	Definit	Er
1	BRS	L1	186	(wireless adj1 communication\$1) same	USPA	2006/04/05 14:17				
2	BRS	L2	6	l1 and (context same (state or mode))	USPA	2006/04/05 14:17				

EAST - [Untitled1:1]

File View Edit Tools Window Help

☐ Drafts
☐ Pending
☒ Active
 L1: (186) (wireless ad-
 L2: (6) ll and (context
☐ Failed
☐ Saved
☐ Favorites
☐ Tagged (0)
☐ UDC
☐ Queue
☐ Trash

Search List Browse Queue Clear
 DBs USPAT ☒ Plurals
 Default operator: OR ☐ Highlight all hit terms initially

ll and (context same (state or mode))

☐ BRS form ☐ IS&R form ☐ Image ☐ Text ☐ HTML

	U	I	Document ID	Issue Dat	Pages	Title	Current OR	Current XR
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6952571 B1	20051004	15	Digital signal processor update of sin	455/226.2	455/343.1;
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6920637 B2	20050719	17	Method and apparatus for implementing alerts	719/318	455/343.2; 455/412.2;
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6901276 B1	20050531	12	Direct digital signal processor control of mu	455/574	370/311; 455/95;
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6861980 B1	20050301	16	Data messaging efficiency for an assis	342/357.06	455/343.2; 701/213
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6690364 B1	20040210	18	Method and system for on screen text correcti	345/173	345/179
6	<input type="checkbox"/>	<input type="checkbox"/>	US 5745850 A	19980428	17	Apparatus and method for mobile (e.g. cellu	455/417	455/420; 455/567



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Modify Search

(((mobile or portable) and computer <in>metadata) <and> (dock<in>metadata))<

[Search >](#)
☐ Check to search only within this results set
Display Format: ☒ Citation ☐ Citation & Abstract

* Key

IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Temporal coordination of perceptual algorithms for mobile robot navigation**
 Arkin, R.C.; MacKenzie, D.;
Robotics and Automation. IEEE Transactions on
 Volume 10, Issue 3, June 1994 Page(s):276 - 286
 Digital Object Identifier 10.1109/70.294203
[AbstractPlus](#) | Full Text: [PDF](#)(1356 KB) IEEE JNL
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- ☐ 2. **The role of vision for underwater vehicles**
 Santos-Victor, J.; Senteiro, J.;
Autonomous Underwater Vehicle Technology. 1994. AUV '94. Proceedings of the 1994 Symposium on
 19-20 July 1994 Page(s):28 - 35
 Digital Object Identifier 10.1109/AUV.1994.518603
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Temporal coordination of perceptual algorithms for mobile robot navigation

Arkin, R.C. MacKenzie, D.

Mobile Robot Lab., Georgia Inst. of Technol., Atlanta, GA, USA;

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Abstract

A methodology for integrating multiple perceptual algorithms within a reactive robotic control system is presented. A model using finite state accepters is developed as a means for expressing perceptual processing over space and time in the **context** of a particular motor behavior. This model can be utilized for a wide range of perceptual sequencing problems. The feasibility of this method is demonstrated in two separate implementations. The first is in the **context of mobile robot docking** where the **mobile robot** uses four different vision and ultrasonic algorithms to position itself relative to a **docking workstation** over a long-range course. The second uses vision, IR beacon, and ultrasonic algorithms to park the robot next to a desired plastic pole randomly placed within an arena

Index Terms

Inspec

Controlled Indexing

[computer vision](#) [computerised navigation](#) [mobile robots](#) [path planning](#)

Non-controlled Indexing

[IR beacon](#) [docking](#) [finite state accepters](#) [mobile robot navigation](#) [perceptual algorithms](#) [perceptual processing](#) [perceptual sequencing problems](#) [reactive robotic control system](#) [temporal coordination](#) [ultrasonic algorithms](#) [vision algorithms](#)

Author Keywords

Not Available

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No references available on IEEE Xplore.

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[Abstract](#) | [Full Text: PDF \(1252\)](#)
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